



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

647.9014

Job Sheet 168036



Part No: 647.9014

Job Qty: 12 ea

Part Name: Strut Bracket



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 11/9/17

Job Tracking No:

Created By: Linda Lacelle

Due Date: 11/24/17

Type: Stock

Description:

Note: DWG REV A1 SHEET 4 IPP REV: A 12.11.01 NEW ISSUE DD VERF:JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	12 Ea		11/23/17	0.00	0.00	Start up container		SE
110	Waterjet	12 pcs		11/23/17	0.00	0.28	Waterjet1		SE
120	QC	12 pcs		11/23/17	0.00	0.00	QC2		SC DAS
130	QC	12 pcs		11/23/17	0.00	0.00	QC8		38
140	Brake NC	12 pcs		11/23/17	0.00	0.41	Brake NC 1		38
150	QC	12 pcs		11/23/17	0.00	0.00	QC5		38
190	SprayPaint	12 pcs		11/24/17	0.00	0.04	Spray Paint		AA NOV 29 2017
200	QC	12 pcs		11/24/17	0.00	0.00	QC14		38
210	Packaging	12 pcs		11/24/17	0.00	0.00	Packaging3	CC 1/7	Ar
220	QC21-SA	12 Ea		11/24/17	0.00	0.00	QC21		Ar

Part Op 110 - 1-Cut as per Dwg Dwg Rev: 4 Prog Rev: 4 2-Deburr if necessary

Descriptions: 190 - PRIME IAW MIL-P-23377J TYPE1 CLASS N AS PER DWG. (SEE NOTE 2) PRIMER BATCH: 138374

210 - ***IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV***

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
90-Start up Operation	M304S16GA	0	52	0	0

Part Specifications

Specifications could not be found.

Plex 11/10/17 11:17 AM dart.lacelle.linda

DART
AEROSPACE
S010289



Strut Bracket

PART NO:
Revision:
Operation:
Change No:

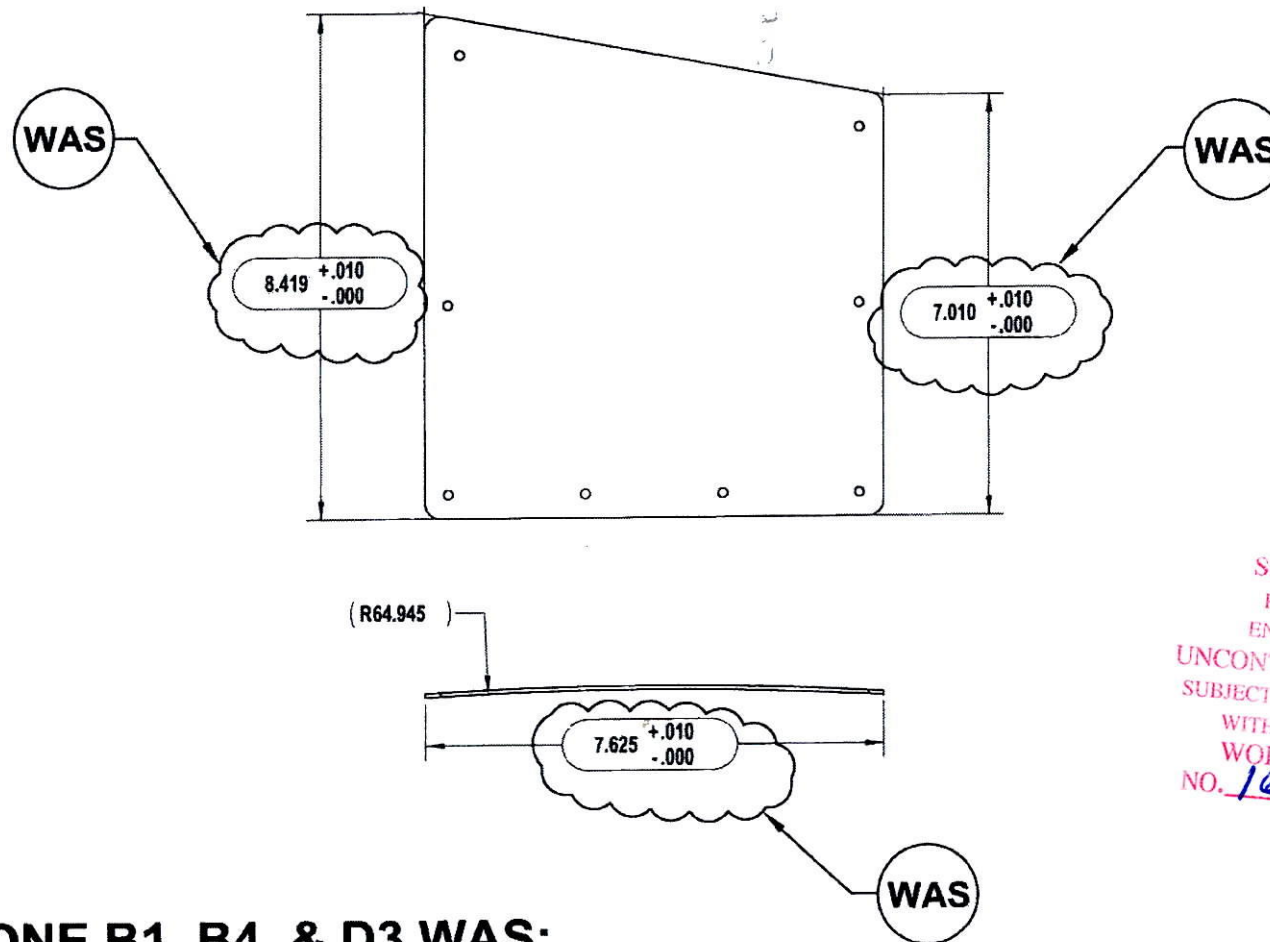
647.9014

Start up Operation

Mfg Date: 11/15/17
Job No: 168036

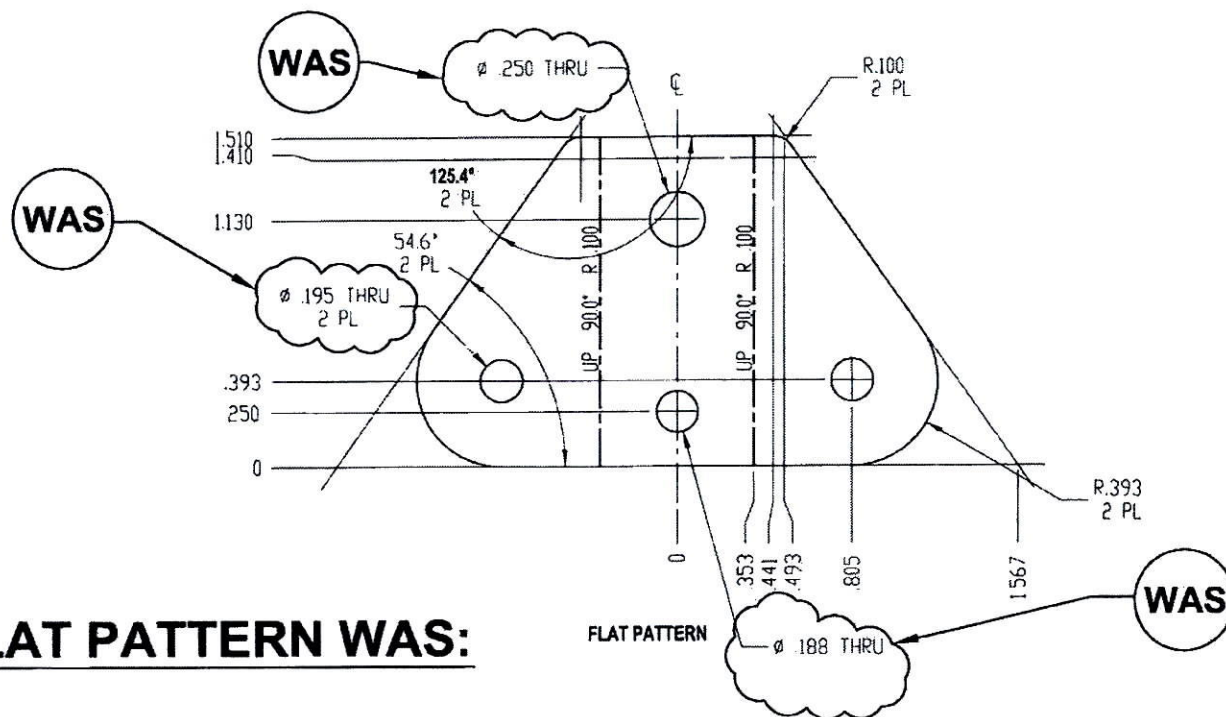
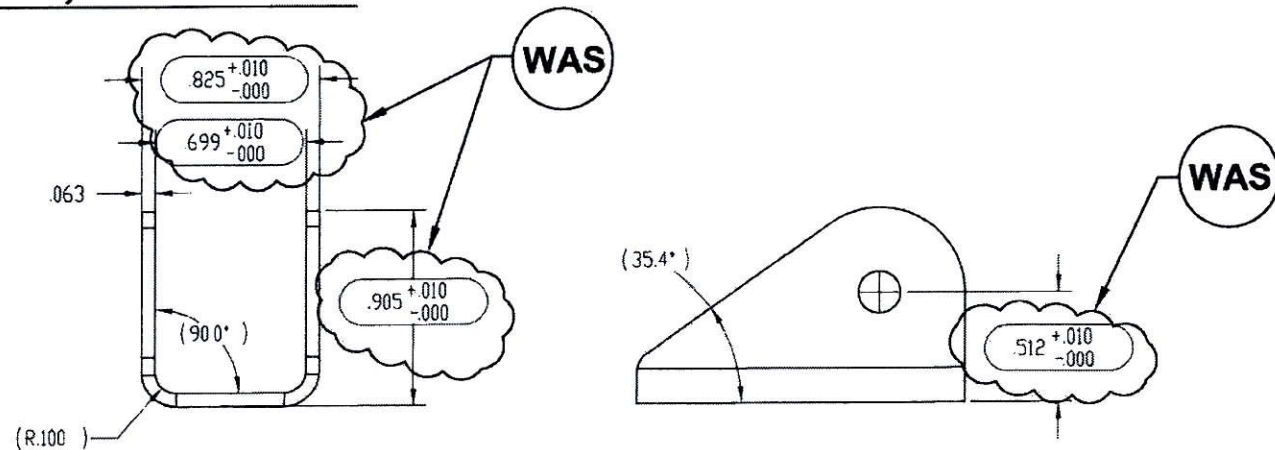
Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K64 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 03726				SHEET 1 OF 4	
	DWG NO. 647.9000	REV: N/C	PREPARED BY B. PETERS	DATE: 12/04/12	EFFECT ON DWG ☒ INC. ☐ UNINC.	
	DWG TITLE: SHEETMETAL					
	APPROVED BY: ENGR. <i>[Signature]</i>	MFG. <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: NEXT ORDER		
TRANSACTION CODES (TC) A-ADD C-CREATE R-REVISE D-DELETE	REASON: INCORPORATED ECN 03213, 03266, 03707 AND REVISED TOLERANCES.					ECR: D-12-013



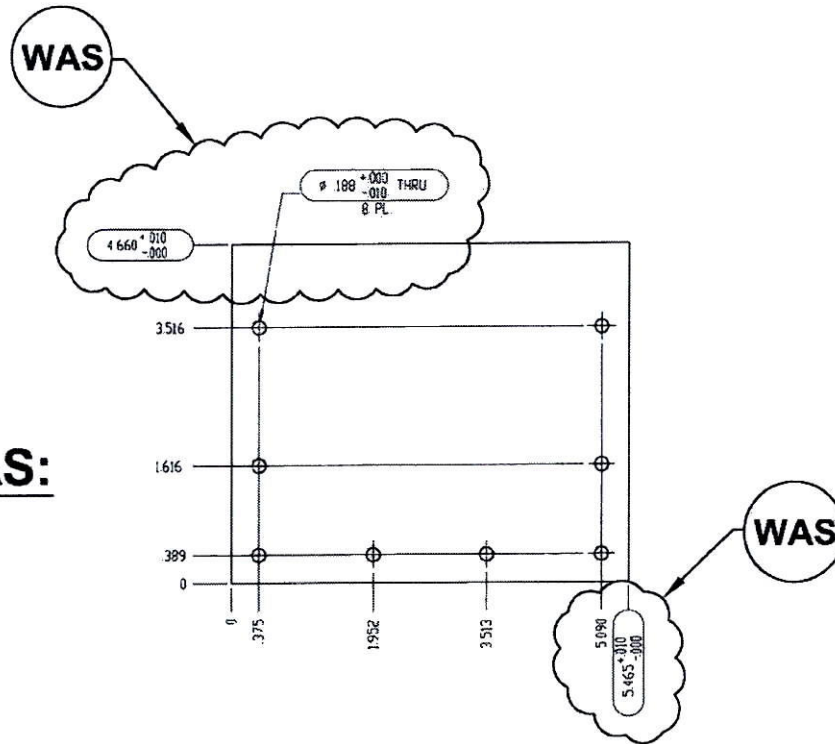
SHEET 2, ZONE B1, B4, & D3 WAS:

DOCUMENTS EFFECTED:	☐ RFMS ☐ MDL ☐ INSTALL INSTRUCC ☐ ICA ☐ BOM	CHANGE CATEGORY ☐ MAJOR ☒ MINOR	DER REVIEW REQUIRED ☐ YES ☒ NO
---------------------	--	---	--

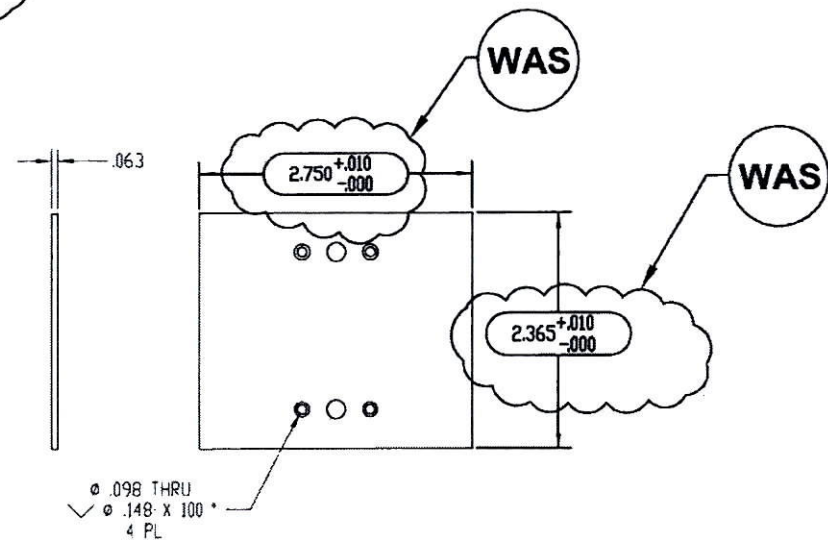
SHEET 4, ZONE C2, D3, & D6 WAS:**SHEET 4, FLAT PATTERN WAS:**

F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL/SPECIFICATION
-----	----	-------------	-----	-------------	------------------------

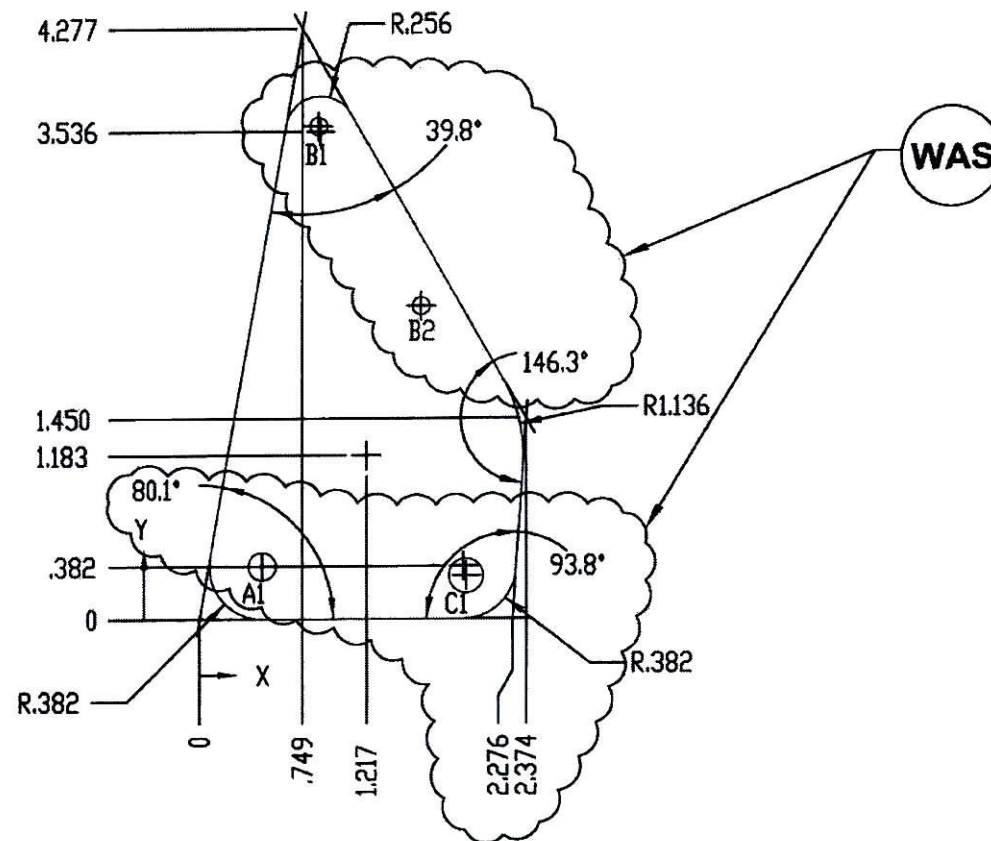
SHEET 5, WAS:



SHEET 7, ZONE B5 & C7 WAS:



F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL/SPECIFICATION
-----	----	-------------	-----	-------------	------------------------



SHEET 9, WAS:

F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL/SPECIFICATION
-----	----	-------------	-----	-------------	------------------------

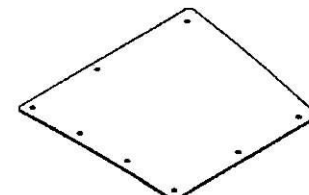
NOTES: UNLESS OTHERWISE SPECIFIED

-

	4	12	601.2277	RIVET	CORPASS-302		
	2	11	601.1900	NUTPLATE	MS210SP-3		
		10	647.9019	HINGE		△	△
		9	647.9018	DOUBLER		△	△
	1	8	647.9017	DOUBLER		△	△
		7	647.9016	DOUBLER		△	△
		6	647.9015	DOUBLER		△	△
		5	647.9014	STRUT BRACKET		△	△
		4	647.9013	FWD CLIP		△	△
		3	647.9012	FWD CLIP		△	△
		2	647.9011	DOUBLER		△	△
	X	1	647.9010	DOUBLER		△	△
			647.9001	COUOLER ASSY		△	△
	9001	FIND #	PART #	DESCRIPTION	MATL	SPEC.	
QTY				PARTS LIST			
NEXT ASSY [S]							
647.8900							
647.9400							

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

REV	DESCRIPTION	DATE	APPROVED



647.9010 SHOWN
647.9011 OPPOSITE

R.250 THRU
4 PL

8.119
7.715
6.802
6.480

DOWN 6.7° R 64.945

.400
.250
0
Ø.160
8 PL

0 .250 .385 .580 2.670 3.817 4.955 7.233 7.384 7.633

.063

FLAT PATTERN

ORIGINAL DATE 04/01/1978	BY P. ROSANO	DATE 07/16/78	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300
DRAWING APPROVAL P. ROSANO	CHECKED P. ROSANO	DATE 07/16/78	SHEETMETAL
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACES DECIMALS ±.01 3 PLACES DECIMALS ±.005 ANGLES ±.5°	REV 8	DWG NO 07M16	REV A
SCALE: NONE			SHEET 2 OF 9

8.419^{+.020}
-.010

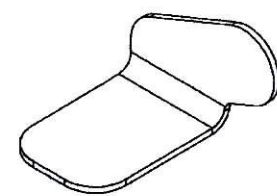
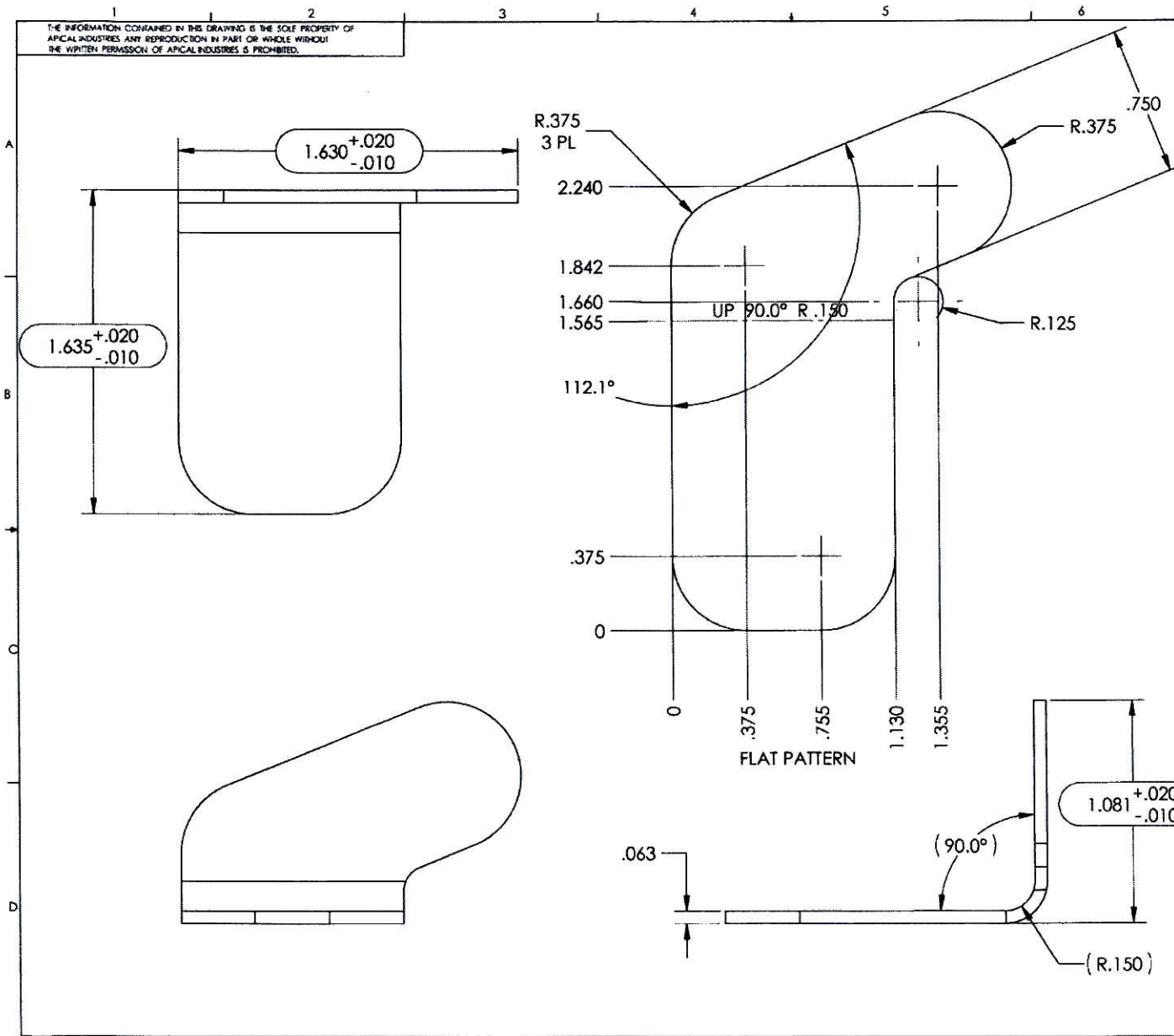
7.010^{+.020}
-.010

(R64.945)

7.625^{+.020}
-.010

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

REV	DESCRIPTION	DATE	APPROVED

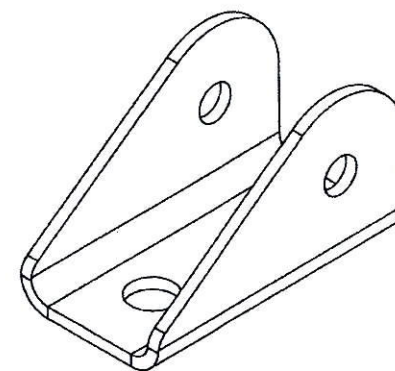
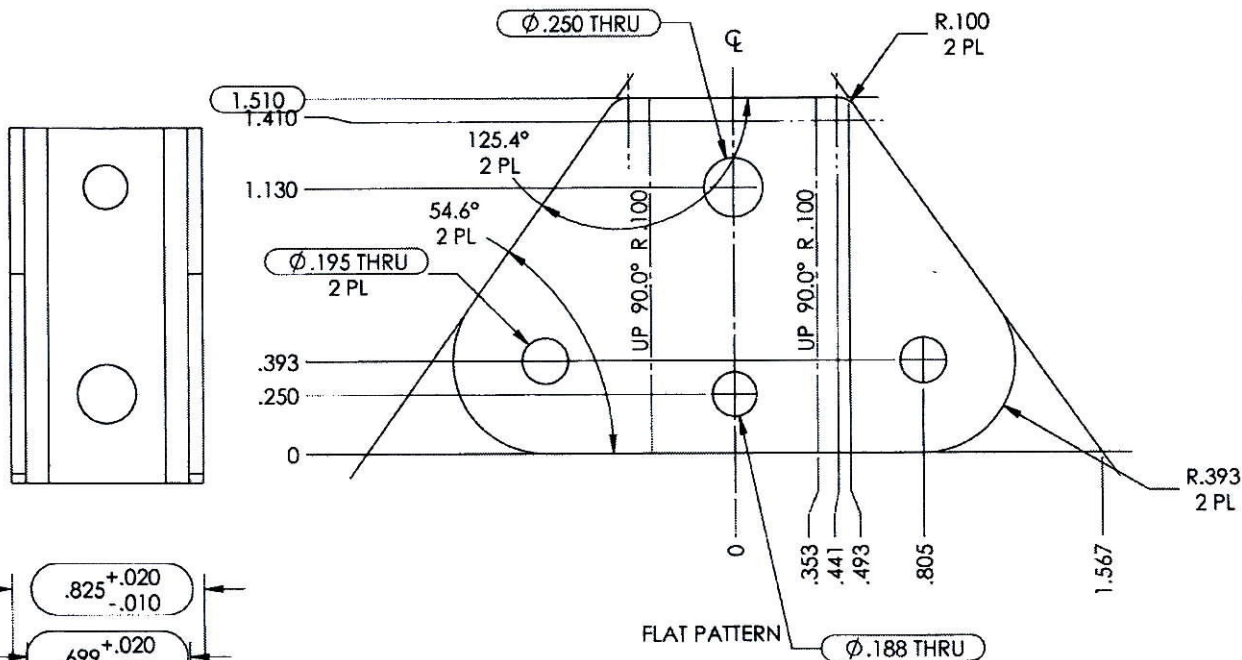


647.9012 SHOWN
647.9013 OPPOSITE

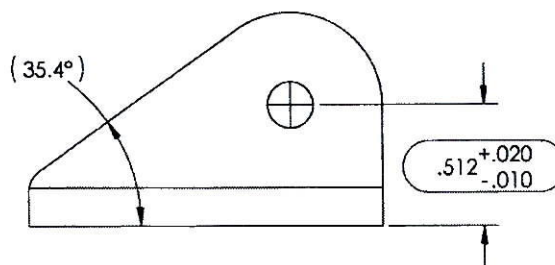
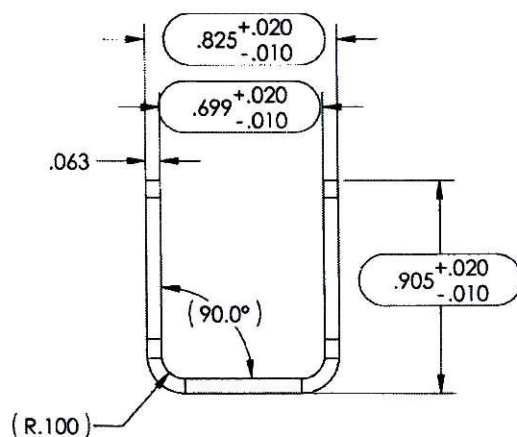
ORIGINAL DATE PAC-DA-101 04-13-10		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA, 92058-3512 (760)724-5300 SHEETMETAL	
DRAWN BY B. HOSANG	CHECKED P. DEAYO		
DRAWING APPROVAL P. DEAYO	DATE 04-13-10		
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$ ANGLES $\pm .5^\circ$		MFG CODE B 07M26	DWG NO 647.9000
SCALE NONE		SHEET 3 OF 9	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

REV.	DESCRIPTION	DATE	APPROVED



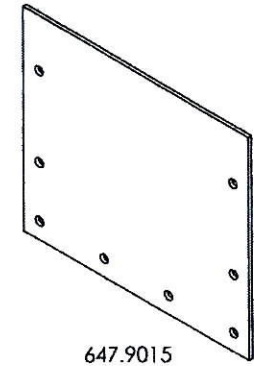
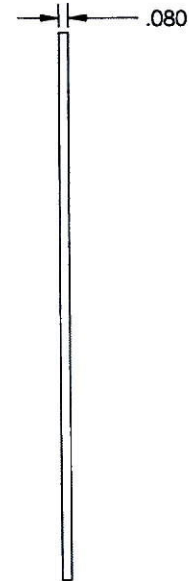
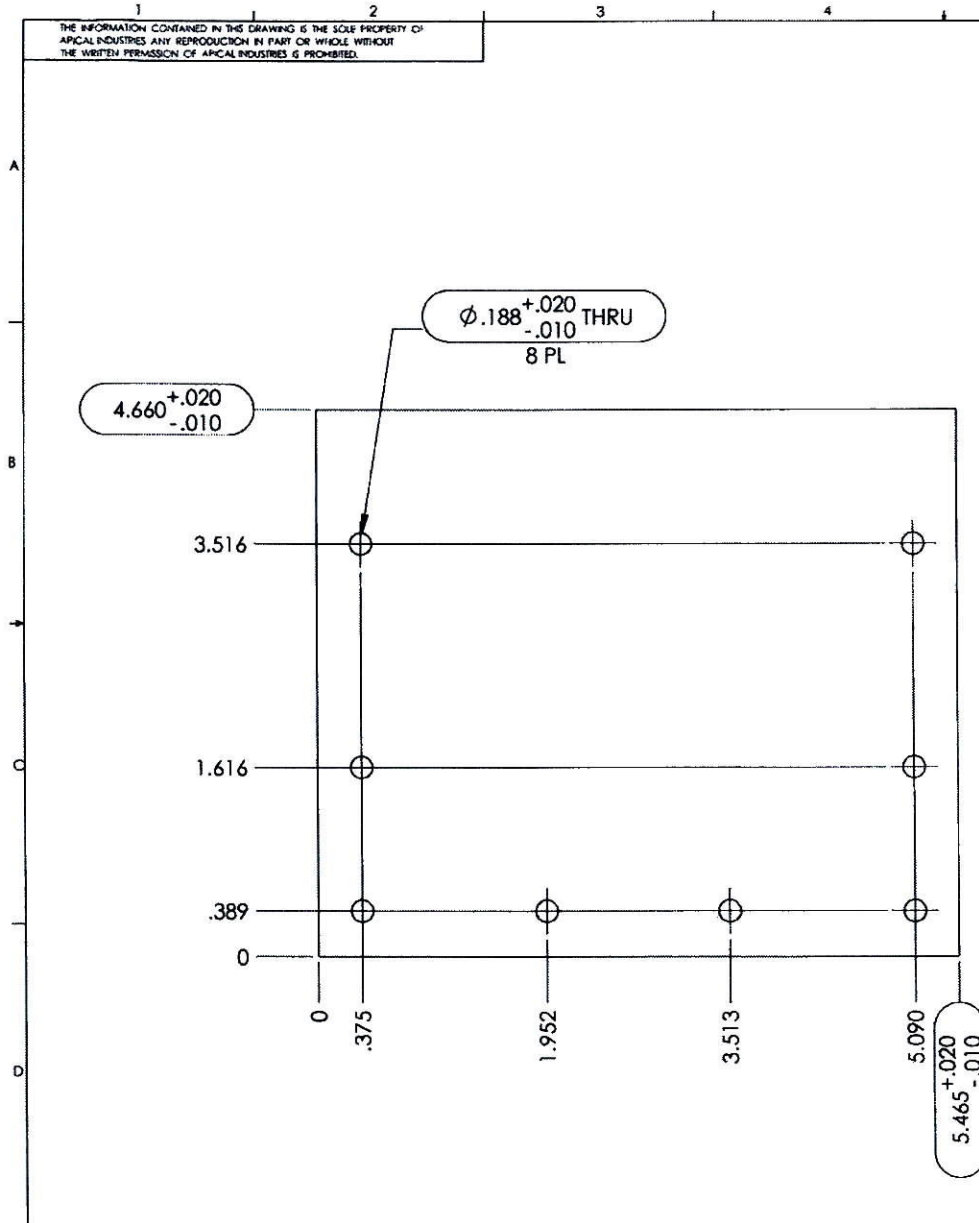
647.9014



ORIGINAL DATE 04/04/10		APICAL INDUSTRIES	
DRAWN BY B. B. B. B.		2608 TEMPLE HEIGHTS DR.	
CHECKED BY P. B. B. B.		OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. B. B. B.		SHEETMETAL	
CONTRACT NO.		647.9000	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE 3 PLACES DECIMALS ± .01 ANGLES 1:1		SHEET B	4 OF 9
SCALE NONE		SHEET 4 OF 9	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

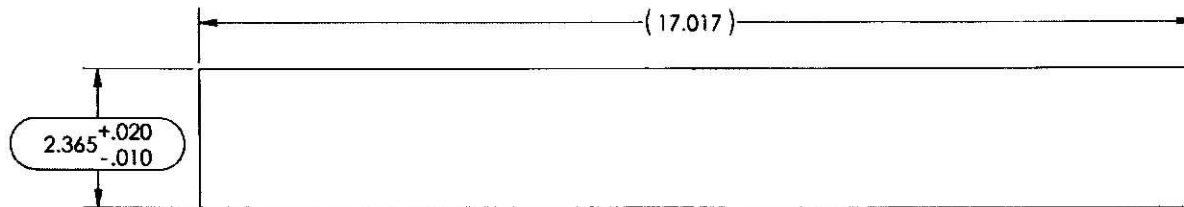
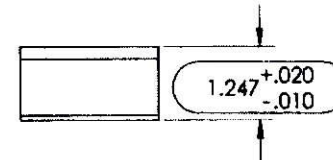
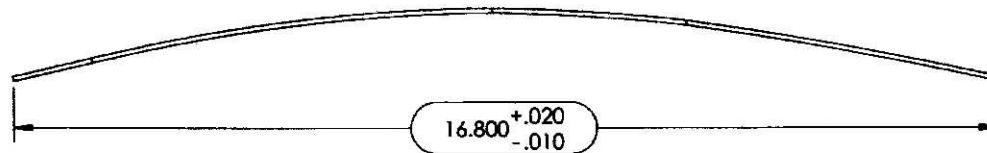
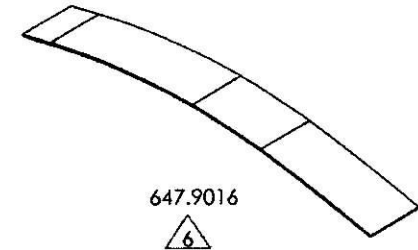
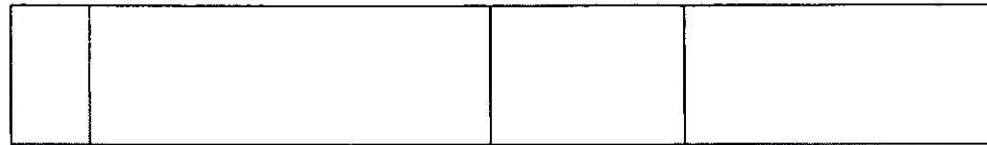
REVIEWS			
REV	DESCRIPTION	DATE	APPROVED



ORIGINAL DATE 04-15-10		APICAL INDUSTRIES	
DRAWN BY P. ROMANO		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKED BY P. BRAVO		SHEETMETAL	
DRAWING APPROVAL P. BRAVO		SHEET 5 OF 9	
CONTRACT NO.		SCALE NONE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		REV B. 07/12/16 647.9000 A	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

REVISION		DATE	APPROVED
REV	DESCRIPTION		



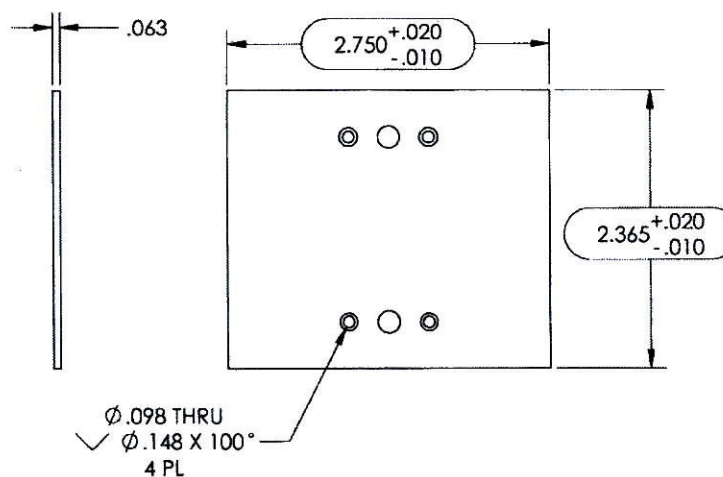
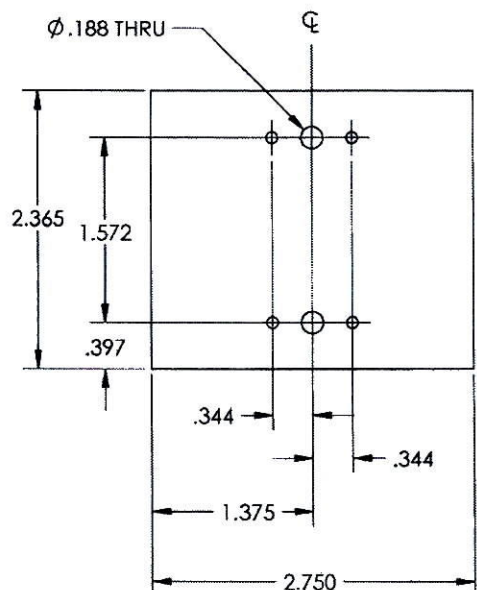
FLAT PATTERN

.080

ORIGINAL DATE: 11-15-16 DESIGNED BY: J. B. B. B. B. DRAWN BY: J. B. B. B. B. CHECKED BY: J. B. B. B. B. APPROVED BY: J. B. B. B. B. CONTRACT NO.		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 17601724-5300	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1 PLACE DECIMALS .010 2 PLACE DECIMALS .005 3 PLACE DECIMALS .002 ANGLES .5°		SHEETMETAL SHEET 6 OF 9	
REV	DESCRIPTION	DATE	APPROVED
B	07/14/16		

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



APICAL INDUSTRIES			
2608 TEMPLE HEIGHTS DR.			
OCEANSIDE, CA. 92056-3512 (760)724-5300			
SHEETMETAL			
UNLESS OTHERWISE SPECIFIED	SIZE	CAGE CODE	DATE
DIMENSIONS ARE IN INCHES	B	07M26	NOV 1990
TOLERANCES ARE:	REV		
2 PLACE DECIMALS .01			
3 PLACE DECIMALS .005			
ANGLES .5°			
SCALE: NONE			

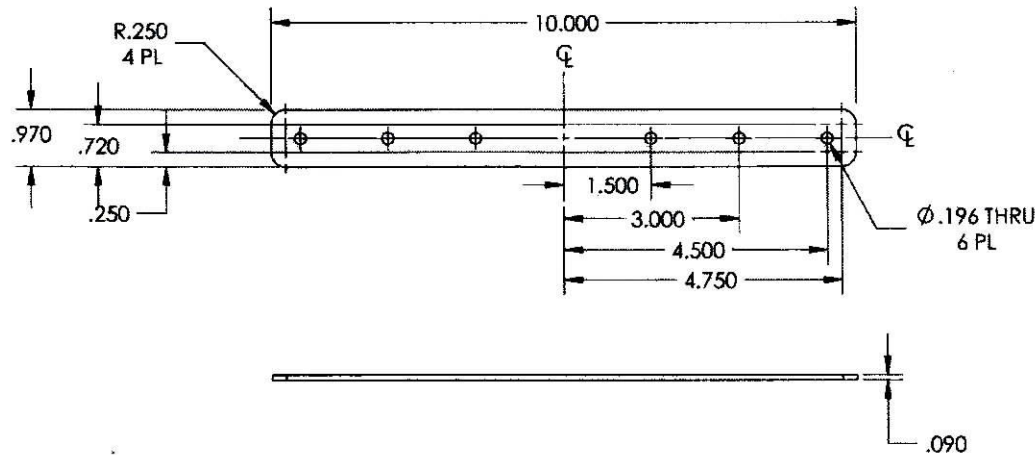
SHEET 7 OF 9

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF
APICAL INDUSTRIES. ANY REPRODUCTION IN FULL OR WHOLE WITHOUT
THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

PR2

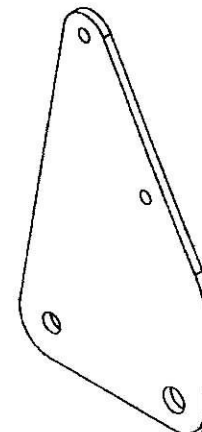
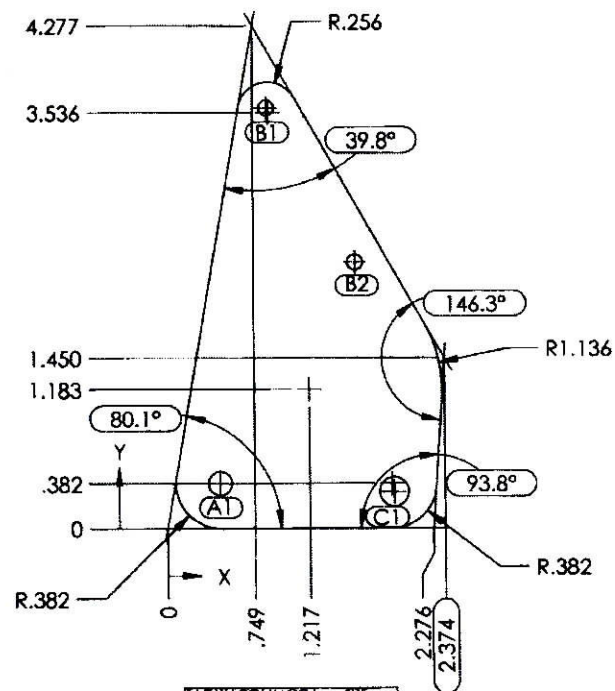
647.9018



ORIGINAL DATE JAN 24 1981		APICAL INDUSTRIES	
DRAWN BY P. ROSANO		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300	
DESIGNED BY P. ROSANO		SHEETMETAL	
CHECKED BY P. ROSANO		SCALE NONE	
CONTRACT NO.		SHEET 8 OF 9	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS .001 1 PLACE DECIMALS .005 ANGLES .5°		REV. NO. 647.9000	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



647.9019

LOC	X LOC	Y LOC	SIZE
A1	.455	.382	Ø .201 THRU
B1	.867	3.573	Ø .130 THRU
B2	1.614	2.266	Ø .130 THRU
C1	1.939	.312	Ø .250 THRU

CREATED BY: BROWDER
 DRAWN BY: BROWDER
 P. HOSKINS
 DRAWING APPROVAL:
 M. J. J.
 CONTRACT NO.

APICAL INDUSTRIES
 2608 TEMPLE HEIGHTS DR.
 OCEANSIDE, CA. 92056-3512 (760)724-5300

SHEETMETAL

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 1/8 INCHES MIN.
 1 PLACE DECIMALS 2.01
 2 PLACE DECIMALS 2.00
 ANGLES 2.5°

SIZE	CAGE CODE	DWG. NO.	REV.
B	07N16	647.9000	A
SCALE: NONE		SHEET 9 OF 9	

